Friday, November 18th

Reminder: Assignment is due and there is extra help available at lunch hour

- Begin Section 5.4 (discrete and continuous data...and graphing data)
- Practice questions
- Begin Section 5.5 (what is the domain/range read from a graph and is the graph considered to be a function).

Quiz on Tuesday on Sections 5.2 to 5.5

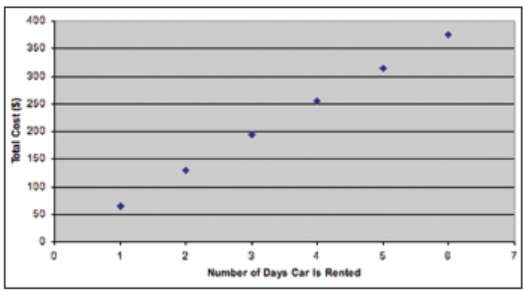
5.4 Graphing Data

MATH LAB

LESSON FOCUS Graph data and investigate the domain and range when the data represent a function.

Make Connections

To rent a car for less than one week from Ace Car Rentals, the cost is \$65 per day for the first three days, then \$60 a day for each additional day.



Number of Days Car Is Rented	Total Cost ($)
1	65
2	130
3	195
4	255
5	315
6	375

Discrete & Continuous:

Discrete Data

- finite number of values in between 2 points
- every number is **not** possible
- easily "countable"
- these would include numbers that are Integers, Whole, or Natural.
- dots on a graph

Examples:

- Number of books on a shelf
- Number of defective items in a shipment of 50 pens

Continuous Data

- infinite number of values in between 2 points
- every number **is** possible
- these would include numbers that are "Real"
- dots are joined

Examples:

- 1-5 and everything in between
- timing for a 100 m dash

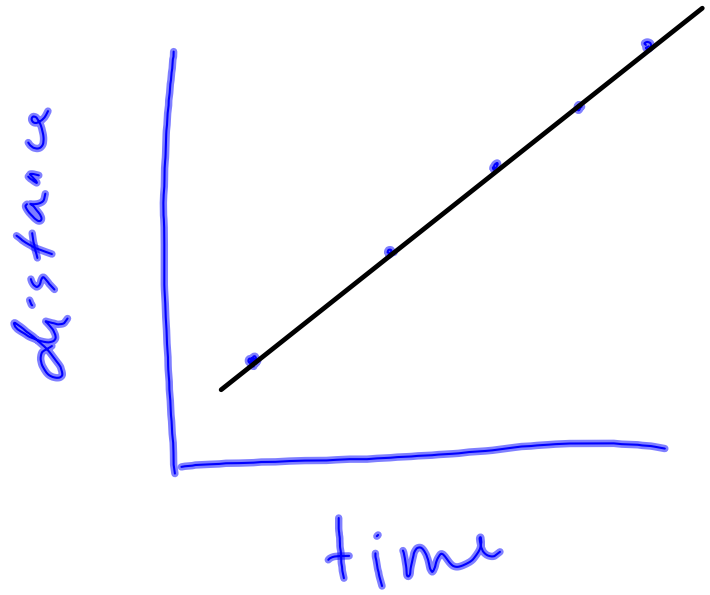
Practice:

1. What is the domain & range of the following set of ordered pairs?

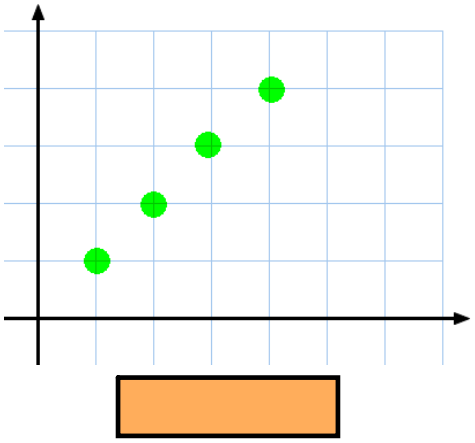
(2,1) (3,2) (8,9) (3,10) (1,3) (3,6) (2,10)

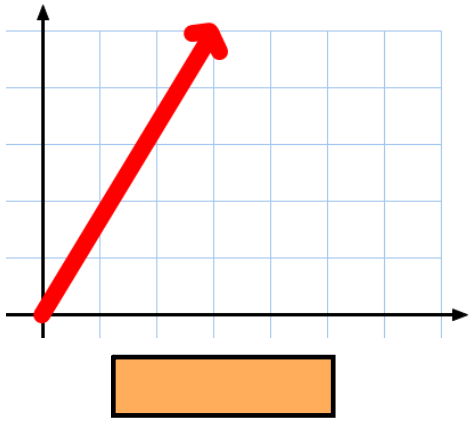
2. Are the following situations discrete or continuous?

a) The height of trees at a nursery over a period of 20 years
b) The number of correct answers on a student's multiple choice quiz
c) How many times it would take a person to pass their driver's test
d) The length of time it takes for a light bulb to burn out



Is this a graph of Discrete or Continuous Data?





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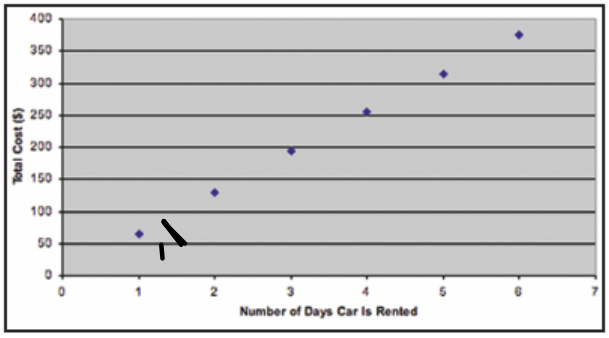
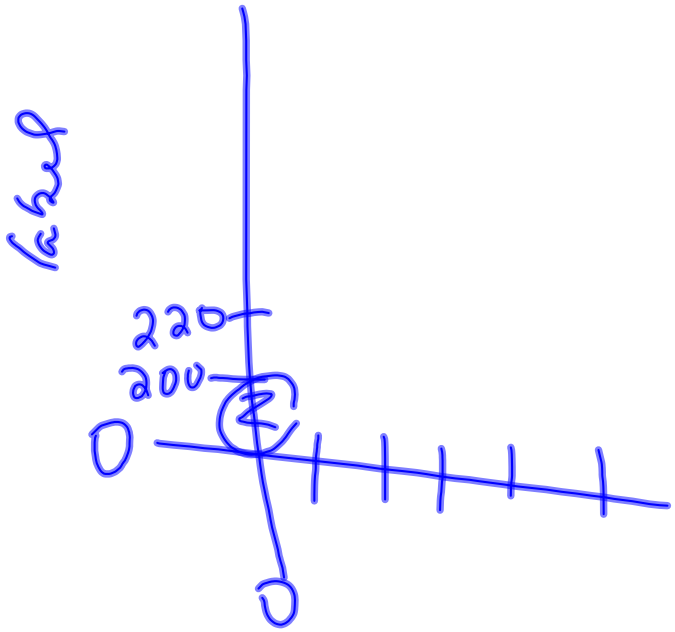


Why are the points on the graph not joined?

Is this relation a function? How can you tell?

What is the domain? What is the range?

5.4 Math Lab: Graphing Data



Pg. 286 #1 a, b ~~2~~

Practice Questions

Page 286 #1 & 2

Quiz on Tuesday! Sections 5.2,5.3, and 5.4